

ABSTRACT OF THE DISCLOSURE**TWO-DIMENSIONAL SCHEDULING SCHEME FOR A
BROADBAND WIRELESS ACCESS SYSTEM**Inventors:

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10 A two dimensional scheduler integrates the allocation of
both the time domain and the channel domain for upstream
communication in a broadband wireless access system. This
allows for the optimization of system resource usage and allows
for dynamic switching between a number of different upstream
15 channels by a modem. Modems are calibrated via a calibration
message constructed at the hub by measuring some parameters of
communication bursts between the modem to the hub. The modems
rotate in using the available upstream channels so that each
available channel is fully calibrated using actual communication
20 bursts, keeping the parameters for each channel ready for use
when assigned for communicating on any of the available
channels.